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NATIONAL ADVISORY COMMITTEE
FOR AERONAUTICS

1724 F Street, Northwest
Washington 25, D. C.

M.L. 259.

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The following documents were released by the National Advisory Committee for Aeronautics during the month of October.

TECHNICAL NOTES

No.

- TN 1453 An Investigation of Aircraft Heaters. XXIX - Comparison of Several Methods of Calculating Heat Losses from Airfoils.
By: L. M. K. Boelter, L. M. Grossman, R. C. Martinelli, and E. H. Morrin.
- TN 1649 Investigation of a $\frac{1}{7}$ -Scale Powered Model of a Twin-Boom Airplane and a Comparison of Its Stability, Control, and Performance with Those of a Similar All-Wing Airplane.
By: Gerald W. Brewer and Ralph W. May, Jr.
- TN 1688 Dynamometer-Stand Investigation of the Muffler Used in the Demonstration of Light-Airplane Noise Reduction.
By: K. R. Czarnecki and Don D. Davis, Jr.
- TN 1696 Chordwise Pressure Distributions on a 12-Foot-Span Wing of NACA 66-Series Airfoil Sections up to a Mach Number of 0.60.
By: Nancy E. Wall.
- TN 1697 The Effects of Compressibility on the Lift, Pressure, and Load Characteristics of a Tapered Wing of NACA 66-Series Airfoil Sections.
By: Morton Cooper and Peter F. Korycinski.
- TN 1698 Effect of Wind Velocity on Performance of Helicopter Rotors as Investigated with the Langley Helicopter Apparatus.
By: Paul J. Carpenter.
- TN 1703 Downwash and Wake behind Untapered Wings of Various Aspect Ratios and Angles of Sweep.
By: H. Page Hoggard, Jr., and John R. Hagerman.
- TN 1704 Investigation of Boundary-Layer Reynolds Number for Transition on an NACA 65(215)-114 Airfoil in the Langley Two-Dimensional Low-Turbulence Pressure Tunnel.
By: Albert L. Braslow and Fioravante Visconti.

- TN 1709 Investigation of the Effects of a Nacelle on the Aerodynamic Characteristics of a Swept Wing and the Effects of Sweep on a Wing Alone.
By: Gerald Hieser and Charles F. Whitcomb.
- TN 1711 Approximate Relations for Hinge-Moment Parameters of Control Surfaces on Swept Wings at Low Mach Numbers.
By: Thomas A. Toll and Leslie E. Schneider.
- TN 1714 Plate Compressive Strength of FS-1h Magnesium-Alloy Sheet and a Maximum-Strength Formula for Magnesium-Alloy and Aluminum-Alloy Formed Sections.
By: George L. Gallaher.
- TN 1715 Mollier Diagrams for Air Saturated with Water Vapor at Low Temperatures.
By: Reece V. Hensley.
- TN 1716 Tables of Hypergeometric Functions for Use in Compressible-Flow Theory.
By: Vera Huckel.
- TN 1717 Gust-Tunnel Investigation of a 45° Sweptforward-Wing Model.
By: Harold B. Pierce.
- TN 1719 Flight Measurements of Buffeting Tail Loads.
By: Allen R. Stokke and William S. Aiken, Jr.
- TN 1720 Friction at High Sliding Velocities of Surfaces Lubricated with Sulfur as an Additive.
By: Robert L. Johnson, Max A. Swikert, and Edmond E. Bisson.
- TN 1721 Calculation of the Effect of Thrust-Axis Inclination on Propeller Disk Loading and Comparison with Flight Measurements.
By: A. W. Vogeley.
- TN 1722 Prediction of the Effects of Propeller Operation on the Static Longitudinal Stability of Single-Engine Tractor Monoplanes with Flaps Retracted.
By: Joseph Weil and William C. Sleeman, Jr.
- TN 1723 A Theoretical Investigation of the Effect of Yawing Moment Due to Rolling on Lateral Oscillatory Stability.
By: Joseph L. Johnson and Leonard Sternfield.
- TN 1724 A Study of Skin Temperatures of Conical Bodies in Supersonic Flight.
By: Wilber B. Huston, Calvin N. Warfield, and Anna Z. Stone.
- TN 1725 Determination of Transient Skin Temperature of Conical Bodies during Short-Time, High-Speed Flight.
By: Hsu Lo.

- TN 1726 Spray Characteristics of Four Flying-Boat Hulls as Affected by Length-Beam Ratio.
 By: William W. Hodges and David R. Woodward.
- TN 1727 A Simplified Method for the Determination and Analysis of the Neutral-Lateral-Oscillatory-Stability Boundary.
 By: Leonard Sternfield and Ordway B. Gates, Jr.
- TN 1729 Flight Determination of Wing and Tail Loads on a Fighter-Type Airplane by Means of Strain-Gage Measurements.
 By: William S. Aiken, Jr.
- TN 1730 Effects of Temporal Tangential Bearing Acceleration on Performance Characteristics of Slider and Journal Bearings.
 By: Dezso J. Ladanyi.
- TN 1731 High-Temperature Attack of Various Compounds on Four Heat-Resisting Alloys.
 By: D. G. Moore, J. C. Richmond, and W. N. Harrison.

TECHNICAL MEMORANDUMS

- TM 1194 Force- and Pressure-Distribution Measurements on Eight Fuselages.
 By: G. Lange.
- TM 1195 On the Sound Field of a Rotating Propeller.
 By: L. Gutin.

REPORTS

Libraries in most of the important cities throughout the country, as well as libraries of schools, manufacturers, and other organizations dealing with aeronautics, are supplied with Reports for reference.

- No. 808 A Method for the Calculation of External Lift, Moment, and Pressure Drag of Slender Open-Nose Bodies of Revolution at Supersonic Speeds.
 By: Clinton E. Brown and Hermon M. Parker.
- TM 816 Comparison of Wind-Tunnel and Flight Measurements of Stability and Control Characteristics of a Douglas A-26 Airplane.
 By: Gerald G. Kayten and William Koven.

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